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| 25X1 | INFORMATION REPORT CD NO. | |
| COUNTRY | USSR (Georgian SSR) DATE DISTR. 10 March 1 | 1952 |
| SUBJECT 25X1 | Aircraft Plant in Tbilisi NO. OF PAGES 3 | |
| PLACE ACQUIRED | NO. OF ENCLS 7 (8 page suisted Belows | es) |
| DATE OF INFO. | Aircraft Plant in Tbilisi NO. OF PAGES 3 NO. OF ENCLS 7 (8 page clisted Belows Supplement to Report NO. | 25X1 |
| OF THE UNITED STAT | STAIRS INFORMATION AFFECTING THE HATIGNAL DEFENSE TEST, WITHIN THE DISANHAN OF THILE IO, SECTIONS OF THE STAIR OF THE STAI | 25X1 |
| 25X1 25X1 | Aircraft Plant in Tiflis produced only one type single-engine jet fighter, starting in 1947. This was a single scatar fighter with two 37-mm to 40-mm guns in the nose. The aircraft produced as being mid-wing monoplanes. It is | 25X1 25X1 |
| 25.1 | not known whether the wings were dihedral | |
| 057/4 | 2. Coviets said that the turbojet engines were received, in unknown quantities, by rail from the Roscow area. The engines were shipped in dark green crates which were made of 25-rm board, the dimensions of which were 250x90x90-cm. The cigar-shaped jet engines were 2.20 meters long and 60-cm in diameter. The outlines of these engines resembled those of a Gorman 1,300 kg air-craft bomb. The inside diameter at the exit of the turbine was estil ate at 25-cm to 30-cm. The engines were never observed being remained or everhouled at the plant. | 25X1 |
| 25X1 25X1 | the starting of an engine. A mechanic mushed a device, about 60-en long, similar to a pnountable harmor, into the air intake. A noise like that of a hand-operated siren followed and a few minutes later the aircraft took off. (2) | |
| 25X1 | 3. Production lines were not used at the plant until 1943. aircraft frames with landing year were pushed by hand on light rails, from one assembly station to the next. Two frames were worked on simultaneously at two rails, one for the fuselage and the other for the wing assembly. (3) | |
| | Riveting and electric welding were observed during the ascembly. The stool jigs for the wing assembly were constructed by Pin from sketches in the repair shop. The dimensions were checked with a measuring tape. | |
| STATEX # | CLASSIFICATION CONFIDENTIAL. NAVY INSRB DISTRIBUTION AIR # FBI | 25X1 |
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| | the Juselage ribs were manufactured in the press cutting shop and that the natorial used was pressed duralumin. Other materials such as wood, etc., were not observed. The ribs varied in | |
| | size but were of the same shape and were assembled from four parts. They were fitted to the fuselage at estimated equal intervals of 40-cm to 60-cm. Stringers were fitted to the ribs, with three to each side of | |
| | the fuschage. They were similar in cross section to the ribs but were a bit stronger and consisted of three aluminum parts, \mathbf{l}_2^2 to 2 meters long. The type of fastening used in assembling the stringers was not known but | |
| | the connections were smooth. Connection pieces, such as cross fittings, angle fittings, and sleeves, were never observed. The stringers were fitted to the outer side of the ribs and were believed to have been fastened to the ribs by screws. It was not known whether all stringers extended through the entire length of the fuselage. (5) | : |
| ž! a | Aluminum sheets, varying in thickness from 0.5-mm to h-mm, were seen at the plant. (6) The thickness of the aluminum skin covering was not known. Two types of silver-gray aluminum were seen. One type was dull and the other had a mirror-like luster. | |
| 5. | Electrical and radio equipment, armament and instruments were not manufactured at the plant although serials and armament seen on aircraft being rolled to the test flights indicated that these accessories were installed at the plant. The source of this equipment was not known. The armament was tested at the target range. | • |
| 6. | The disassembly for shipment of four aircraft per day was observed at the loading ramp. The disassembly was rapidly accomplished by five or six men working from 7.00 a.m. to 5.00 p.m. The aircraft were usually loaded by 6.00 p.m. The test stand for power plants was in operation for a period of two to four hours every two or three days. | 25X1 |
| | the crude oil warehouse. (7) | |
| 7. | The plant employed about 3,000 laborers who worked in three shifts. | i V |
| (1) | Comments. For plant location and layout see Appears 1 and 2. These sketches essentially agree with previous information. | |
| | High speed lathes were not noticed in the ground floor machine shop of building It was allegedly equipped with automatic lathes only. No information was available on tungsten—carbide tipped cutters or on the machinery of the upper stories. For sketches of the aircraft produced at this plant, see Annexes 3 and 4. For sketch of wing shape, see Annex 7/C. | |
| (2) | For sketch and estimated dimensions of the jet engines used, see Annex 5/8. From the dimensions given it appears that this is the Soviet version of the JEEC COL type power plant. The outboard starter engine, which was reported | |
| (3) | for the first time, also points to a JUMO COM, engine. A previous report stated that wings and fuselages were transported by trolleys while another report discussed the manually operated transport of jigs on light rails to the various assembly stations. This second report also mentioned the simultaneous assembly of about nine aircraft, which appears more probable. | |
| (ls) | For a sketch of these jigs, see Annex 5/A. No definite conclusion can be drawn as to the purpose of this jig, but it is assumed that a frame for the adjustment of the fuselage position was concerned and that the spindle was not reproduced on the sketch. | |
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(5) For sketches of ribs and stringers, see Annexes 6, 7/A and 7/B. The information concerning rabs and stringers was given in answer to direct leading questions and should be treated with reserve. The square, closed type of stringers and the manner in which they are said to be fastened to the ribs is doubted. It is rather assumed that the aircraft frames were of shell construction supported by stringers only.

(6) This is the first information on a skin covering less than 1-mm thick, indicating that the type of skin (0.3-mm to 0.5-mm) used in thick, indicating that the type of skin (0.3-mm to 0.5-mm) used in

western aircraft construction is also used in the U.S.S.R.

(7) A previous report stated that "masut" fuel was stored in this ware-house.

7 Annexes: 7 - sketches on ditto.

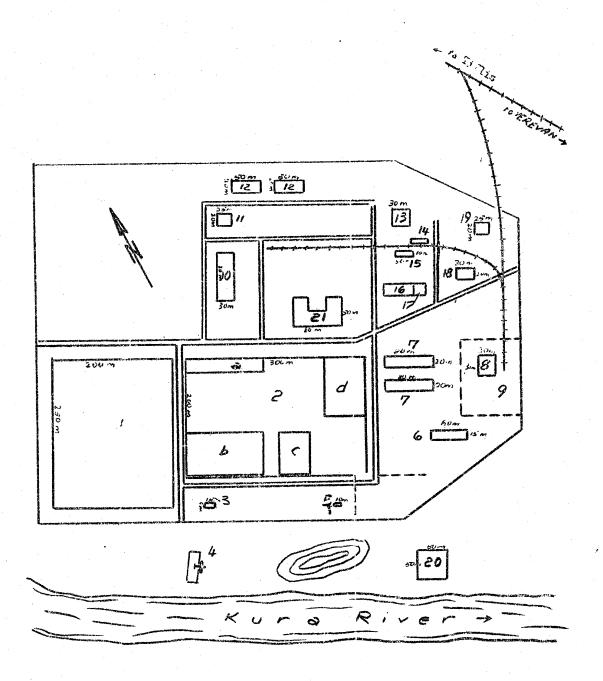
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Legend: See next page.

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| CONFIDENTIAL CENTRAL INTELLIGENCE AGENCY | Attachment l Page 2 |
|---|------------------------|
| | |
| Legand | |
| 1. Workshop for component parts, several stories high. | |
| 2. Assembly shop. | |
| a. Administrative office. | |
| b. Final assembly stations. | |
| c. Drying room. | |
| d. Riveting and welding shop. | |
| 3. Painting shop. | • |
| li. Target range. | |
| 5. Carbide warehouse. | |
| 6. Repair shop. | |
| 7. Aluminum warehouse. | |
| 8. Saw mill. | |
| 9. Timber dump. | |
| 10. Oil burning power plant with two steam turbines. | |
| 11. Foundry with one cupola furnace and five aluminum sm | elting furmaces. |
| 12. Carpenter shops. | |
| 13. Boiler house with six hard coal burning boilers, hav sumption of 30 tons of coal. | ing a daily con- |
| 14. Loading ramp. | |
| 15. Ply-wood warehouse. | • |
| 16. Drafting office. | |
| 17. Small workshop. | |

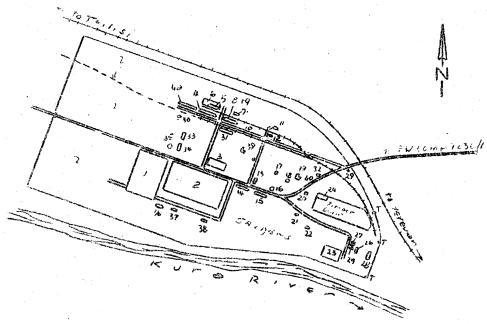
18. Paint warehouse.19. Aluminum smelting shop for scrap, with two furnaces.

20. Water filtering plant and pumping plant.

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in Tiflis. Aircraft Plant

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lerend:

- lo workshop with offices in the southern sections
- 2. orkshop.
- 3. workshop.
- Asand 4a were souses.
- 5. Carrenter ship. 6. Enterial mare louse.
- 7. Boiler house.
- P. Wirehouse for electric equipment.
- 9 Test stand (?)
- 10 . Hura
- 11. Smelting plant for aluminum.
- 12. Building .
- 13. Office building .
- 14. Warchouse.
- 15. Warehouse.
- 16. Title building with storage space 35. Fire extinguishing pool and in the baser ento
- 17. temporary workshore
- 18. Fire extinguishing pool.
- 19. Slap stone plant.
- 20. Clay cabin, office of timber comp.
- 21. Fall Jorkshop.
- 22. Scall workshop.

- 23 Lotor pool.
- 24. Crate dump.
- 25. Building.
- 26. Clothing werehouse.
- 27. For wasling shop.
- 28. Gawmill "
- 29. Guard house.
- 30. Crude oil war shouse.
- 31. Cement store with ramp.
- 32. Office building .
- 33. Solidly constructed building.
- 34. Solidly constructed building.
- swinging pool.
- o and37. Solidly constructed buildings.
 - 38. Solidly constructed building (clothing warehouse).
 - ... Almber shed.
 - 40. Scrap dump with aircraft scrap).

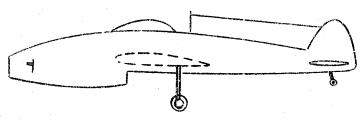
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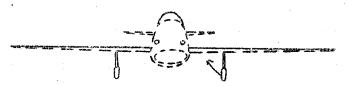
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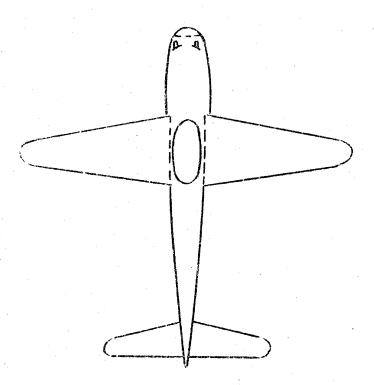
mireraft produced at w. Tiflis mireraft Plant



a. Side view.



b. Front view.

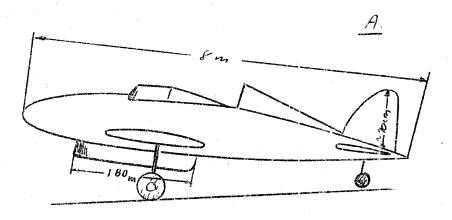


c. Top view.

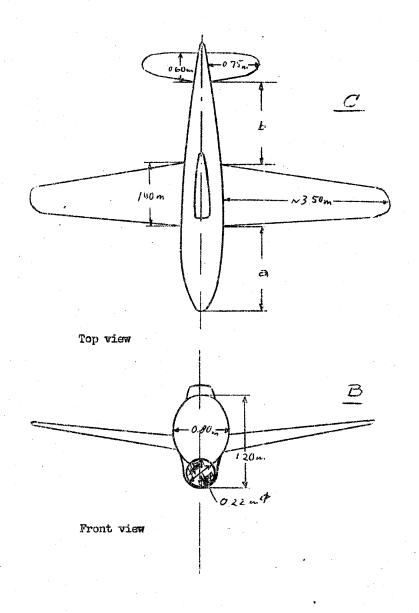
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Side view

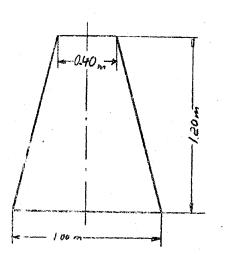


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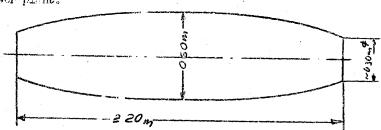
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Turbane wheel (vague reproduction)



B

Fower plant.

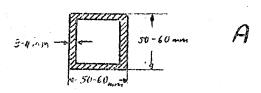


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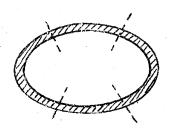
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Attachment 6

Cross Section of Aircraft wib

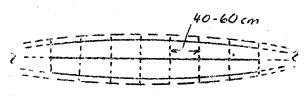


Shape of Aircraft Kib



not to scale

Side View of Puselage



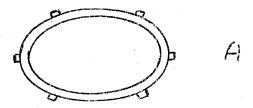
ruselage

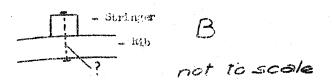
stringers Mibs

not to scale

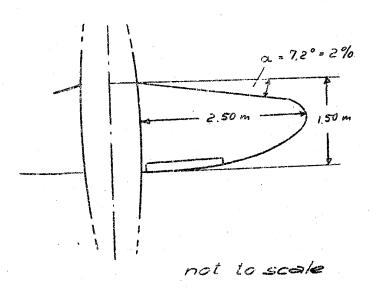
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Front View of Mibs with Anstered whrincers





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